



PTO/SB/08a/b (08-03)

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Substitute for form 1449A/B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/776681-Conf. #3827
				Filing Date	February 11, 2004
				First Named Inventor	Rudolf FAUST
				Art Unit	1713
				Examiner Name	Choi, Ling Siu
Sheet	1	of	5	Attorney Docket Number	ULI-001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>LC</i>	A1	US-6,750,267	06-15-2004	Faust <i>et al.</i>	/
	A2	US-6,469,115	10-22-2002	Faust <i>et al.</i>	
	A3	US-6,268,451	07-31-2001	Faust <i>et al.</i>	
	A4	US-6,194,597	02-27-2001	Faust <i>et al.</i>	
	A5	US-6,051,657	04-18-2000	Faust <i>et al.</i>	
	A6	US-6,046,281	04-04-2000	Faust <i>et al.</i>	
	A7	US-6,025,437	02-15-2000	Hirahara <i>et al.</i>	
	A8	US-5,981,785	11-09-1999	Faust <i>et al.</i>	
	A9	US-5,777,044	07-07-1998	Faust	
	A10	US-5,700,625	12-23-1997	Sato <i>et al.</i>	
	A11	US-5,690,861	11-25-1997	Faust	
	A12	US-5,677,386	10-14-1997	Faust	
	A13	US-5,665,837	09-09-1997	Faust <i>et al.</i>	
	A14	US-5,637,647	06-10-1997	Faust	
	A15	US-5,451,647	09-19-1995	Faust <i>et al.</i>	
	A16	US-5,428,111	06-27-1995	Faust <i>et al.</i>	
	A17	US-5,122,572	06-16-1992	Faust <i>et al.</i>	
	A18	US-4,965,340	10-23-1990	Matsuda	
	A20	US-4,910,321	03-20-1990	Faust <i>et al.</i>	
	A21	US-4,568,732	02-04-1986	Kennedy <i>et al.</i>	
	A22	US-4,182,818	01-08-1980	Tung <i>et al.</i>	
<i>LC</i>	A23	US-4,129,557	12-12-1978	Kudo <i>et al.</i>	

FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>LC</i>	A24	WO 05/012373	02-10-2005	Scimed Life Systems, Inc.	/	
	A25	WO 04/113400	12-29-2004	Scimed Life Systems, Inc.		
	A26	WO 03/011596	02-13-2003	BASF Drucksysteme GmbH		
	A27	WO 02/28924	04-11-2002	Dow Corning Corp <i>et al.</i>		
	A28	WO 01/87999	11-22-2001	Dow Corning Corp <i>et al.</i>		
	A29	WO 00/63256	10-26-2000	Dow Corning Corp <i>et al.</i>		
	A30	WO 00/32654	06-08-2000	Dow Corning Corp <i>et al.</i>		
	A31	WO 00/32609	06-08-2000	Dow Corning Corp <i>et al.</i>		
	A32	EP 0 931 581	07-28-1999	Ebara Corporation		
	A33	WO 99/24480	05-20-1999	Dow Corning Corp <i>et al.</i>		
	A34	WO 99/09074	02-25-1999	Infineum Holdings B.V.		
	A35	JP 11176750 abstract	07-02-1999	International Business Machines Corporation		
	A36	EP 0 877 294	11-11-1998	Nippon Zeon Co., Ltd.		
<i>LC</i>	A37	WO 95/17436	06-29-1995	University of Massachusetts Lowell		
Examiner Signature		<i>Ling Siu Choi</i>		Date Considered	02/06/05	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>lc</i>	B1	WO 93/02110	02-04-1993	Exxon Chemical Patents, Inc. <i>et al.</i>	/	
	B2	EP 0 379 250 A	07-25-1990	Stamcarbon B.V.		
	B3	JP 63049228 abstract	03-02-1988	Ebara Res. Co. Ltd.		
	B4	EP 0 024 120	02-25-1981	Sumitomo Chemical Co. Ltd.		
<i>lc</i>	B5	JP 50092877	07-24-1975	Maruzen Oil Co. Ltd.		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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<i>lc</i>	B6	ALLEN, RD, <i>et al.</i> Preparation of High Purity, Anionic Polymerization Grade Alkyl Methacrylate Monomers. <i>Polymer Bull.</i> , 1986, 15:127-34.				
	B7	ASTHANA, A, <i>et al.</i> Star-block Polymers of Multiple Polystyrene-b-polyisobutylene Arms Radiating from a Polydivinylbenzene Core. <i>J. Polymer. Sci. Part A: Polym. Chem.</i> , 1999, 37:2235-43.				
	B8	AUSCHRA, C, <i>et al.</i> Synthesis of Block Copolymers with Poly(methyl methacrylate): P(B-b-MMA), P(EB-b-MMA), P(S-b-B-b-MMA) and P(S-b-EB-b-MMA). <i>Polymer Bull.</i> , 1993, 30:257-64.				
	B9	BAE, YC, <i>et al.</i> Halogen-free Polyisobutylene by in situ Methylation of Living Polyisobutylene Using Dimethyl Zinc. <i>Polymer Bull.</i> , 2000, 44:453-59.				
	B10	BAE, YC, <i>et al.</i> Addition Reaction of Living Polyisobutylene to "Double" Diphenylethylenes. Synthesis of 1,1-Diphenylethylene-Functionalized Polyisobutylene Macromonomers. <i>Macromolecules</i> , 1998, 31:9379-83.				
	B11	BAE, YC, <i>et al.</i> Living Coupling Reaction in Living Cationic Polymerization. 2. Synthesis and Characterization of Amphiphilic A <sub>2</sub> B <sub>2</sub> Star-Block Copolymer: Poly[bis(isobutylene)-star-bis(methyl vinyl ether)]. <i>Macromolecules</i> , 1998, 31:2480-87.				
	B12	CHEN, X, <i>et al.</i> Block Copolymers of Styrene and <i>p</i> -acetoxystyrene with Polyisobutylene by Combination of Living Carbocationic and Atom Transfer Radical Polymerizations. <i>Macromol. Chem., Rapid Commun.</i> , 1998, 19:585-89.				
	B13	CHUNG, TC, <i>et al.</i> U.S. Patent Application Publication No. 2001/0047069, pub. Nov. 29, 2001				
	B14	COCA, S, <i>et al.</i> Block Copolymers by Transformation of "Living" Carbocationic into "Living" Radical Polymerization. II. ABA-type Block Copolymers Comprising Rubbery Polyisobutylene Middle Segment. <i>J. Polymer. Sci. Part A: Polym. Chem.</i> , 1997, 35(16):3595-3601.				
	B15	FALKENHAGEN, J, <i>et al.</i> Characterization of Block Copolymers by Liquid Adsorption Chromatography at Critical Conditions. 1. Diblock Copolymers. <i>Macromolecules</i> , 2000, 33:3687-93.				
	B16	FAUST, R, <i>et al.</i> Living Carbocationic Polymerization. III. Demonstration of the Living Polymerization of Isobutylene. <i>Polym. Bull.</i> , 1986, 15:317-23.				
<i>lc</i>	B17	FELDTHUSEN, J, <i>et al.</i> Synthesis of Linear and Star-Shaped Block Copolymers of Isobutylene and Methacrylates by combination of Living Cationic and Anionic Polymerizations. <i>Macromolecules</i> , 1998, 31:578-85.				
Examiner Signature	<i>[Signature]</i>			Date Considered	10/26/05	


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Le	C1	FELDTUSEN, J, <i>et al.</i> Stable Carbanions by Quantitative Metalation on Cationically Obtained Diphenylvinyl and Diphenylmethoxy Compounds: New Initiators for Living Anionic Polymerizations. <i>Macromolecules</i> , 1997, 30 :6989-93.		
	C2	FISHBEIN, L, <i>et al.</i> The Relationship of Structure to Some Physical and Mechanical Properties of Poly (vinyl alkyl ethers). <i>Makromol Chem.</i> , 1961, 48:221-28.		
	C3	FODOR, Z, <i>et al.</i> Polyisobutylene-based Thermoplastic Elastomers. II. Synthesis and Characterization of Poly( <i>p</i> -methylstyrene- <i>block</i> -isobutylene- <i>block</i> - <i>p</i> -methylstyrene) Triblock Copolymers. <i>J. Macromol. Sci., Pure Appl. Chem.</i> , 1995, A32(3):575-91.		
	C4	FODOR, Z, <i>et al.</i> Synthetic Applications of Non-polymerizable Monomers in Living Carbocationic Polymerization. <i>Polymer Preprints</i> , 1994, 35(2): 492-93.		
	C5	FODOR, Z, <i>et al.</i> Living Carbocationic Polymerization of <i>p</i> -methylstyrene and Sequential Block Copolymerization of Isobutylene with <i>p</i> -Methylstyrene. <i>J. Macromol. Sci., Pure Appl. Chem.</i> , 1994, A31(12):1985-2000.		
	C6	GYOR, M, <i>et al.</i> Polyisobutylene-based Thermoplastic Elastomers. I. Synthesis and Characterization of Polystyrene-Polyisobutylene-Polystyrene Triblock Copolymers. <i>J. Macromol Sci.</i> , 1994, A31(12):2055-65.		
	C7	GYOR, M, <i>et al.</i> Living Carbocationic Polymerization of Isobutylene with Blocked Bifunctional Initiators in the Presence of di- <i>tert</i> -butylpyridine as a Proton Trap. <i>J. Macromol. Sci., Pure Appl. Chem.</i> , 1992, A29(8):639-53.		
	C8	HADJIKYRIACOU, S, <i>et al.</i> Living Coupling Reaction in Living Cationic Polymerization. 3. Coupling Reaction of Living Polyisobutylene Using Bis(furanyl) Derivatives. <i>Macromolecules</i> 2000, 33:730-33.		
	C9	HADJIKYRIACOU, S, <i>et al.</i> Cationic Macromolecular Design and Synthesis Using Furan Derivatives. <i>Macromolecules</i> 1999, 32:6393-99.		
	C10	HADJIKYRIACOU, S, <i>et al.</i> Amphiphilic Block Copolymers by Sequential Living Cationic Polymerization: Synthesis and Characterization of Poly(isobutylene- <i>b</i> -methyl vinyl ether) <i>Macromolecules</i> , 1996, 29:5261-67.		
	C11	HADJIKYRIACOU, S, <i>et al.</i> Living Cationic Homopolymerization of Isobutyl Vinyl Ether as Sequential Block Copolymerization of Isobutylene with Isobutyl Vinyl Ether. Synthesis and Mechanistic Studies. <i>Macromolecules</i> , 1995, 28:7893-7900.		
	C12	HADJIKYRIACOU, S, <i>et al.</i> Synthetic Applications of Nonpolymerizable Monomers in Living Cationic Polymerization: Functional Polyisobutylenes by End-quenching. <i>J. Macromol. Sci., Pure Appl. Chem.</i> 1995, A32(6):1137-53.		
	C13	HIGASHIMURA, T, <i>et al.</i> Living Cationic Polymerization of 4- <i>tert</i> -butoxystyrene and Synthesis of Poly(4-vinylphenol) with Narrow Molecular Weight Distribution. <i>Makromol. Chem., Suppl.</i> 1989, 15:127-36.		
	C14	HIRAI, A, <i>et al.</i> Polymerization of Monomers Containing Functional Groups Protected by Trialkylsilyl Groups. 1. Synthesis of Poly(4-vinylphenol) by Means of Anionic Living Polymerization. <i>Makromol. Chem., Rapid Commun.</i> , 1982, 3:941-46.		
	C15	HIRAO, A, <i>et al.</i> Polymerization of Monomers Containing Functional Groups Protected by Trialkylsilyl Groups. 5. Synthesis of Poly(20hydroxyethyl methacrylate) with a Narrow Molecular Weight Distribution by Means of Anionic Living Polymerization. <i>Macromolecules</i> , 1986, 19:1294-99.		
	C16	HSIEH, HL, <i>et al.</i> <u>Anionic Polymerization</u> . NY: Marcel Dekker, 1996, pp. 307-392, 447-605, and 641-684.		
la	C17	JUNG, ME, <i>et al.</i> Generation of the Enolate of Acetaldehyde from Non-carbonyl Substances and C-alkylation, O-acylation and O-silylation. <i>Tetrahedron Lett.</i> , 1977, 43:3791-94.		
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lee	D1	KASZAS, G, <i>et al.</i> Quasiliving Carbocationic Polymerization. XII. Forced Ideal Copolymerization of Isobutylene with Styrene. <i>J. Macromol. Sci.-Chem.</i> , 1982-3, A18(9):1367-82.	
	D2	KASZAS, G, <i>et al.</i> Polyisobutylene-containing Block Polymers by Sequential Monomer Addition. II. Polystyrene-Polyisobutylene-Polystyrene Triblock Polymers: Synthesis, Characterization, and Physical Properties. <i>J. Polym. Sci., Polym. Chem. Ed.</i> , 1991, A29(1):427-35.	
	D3	KENNEDY, JP, <i>et al.</i> Polyisobutylene-containing Block Polymers by Sequential Monomer Addition. 8. Synthesis, Characterization, and Physical Properties of Poly(indene- <i>b</i> -isobutylene- <i>b</i> -indene) Thermoplastic Elastomers. <i>Macromolecules</i> , 1993, 26:429-35.	
	D4	KIM, MS, <i>et al.</i> Synthesis of Poly( $\epsilon$ -caprolactone- <i>b</i> -isobutylene) Diblock Copolymer and Poly( $\epsilon$ -caprolactone- <i>b</i> -isobutylene- <i>b</i> - $\epsilon$ -caprolactone) Triblock Copolymer. <i>Polym. Bull.</i> , 2002, 48(2), 127.	
	D5	KITAYAMA, T, <i>et al.</i> PMMA-block-polyisobutylene-block-PMMA Prepared with $\alpha,\omega$ -dilithiated Polyisobutylene and its Characterization. <i>Polymer Bull.</i> , 1991, 26:513-20.	
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	D8	LEDWITH, A, <i>et al.</i> Absolute Reactivity in the Cationic Polymerization of Methyl and Other Alkyl Vinyl Ethers. <i>Polymer</i> , 1975, 16(1):31-37.	
	D9	LI, D, <i>et al.</i> Polyisobutylene-based Thermoplastic Elastomers. 3. Synthesis, Characterization, and Properties of Poly( $\alpha$ -methylstyrene- <i>b</i> -isobutylene- <i>b</i> - $\alpha$ -methylstyrene) Triblock Copolymers. <i>Macromolecules</i> , 1995, 28:4893-98.	
	D10	LI, D, <i>et al.</i> Living Carbocationic Sequential Block Copolymerization of Isobutylene with $\alpha$ -methylstyrene. <i>Macromolecules</i> , 1995, 28:1383-89.	
	D11	LUBNIN, AV, <i>et al.</i> Living Carbocationic Polymerization of Isobutyl Vinyl Ether and the Synthesis of Poly[isobutylene- <i>b</i> -(isobutyl vinyl ether)]. <i>J. Polymer. Sci. Part A: Polym. Chem.</i> , 1993, 31:2825-34.	
	D12	MARTINEZ-CASTRO, N, <i>et al.</i> Polyisobutylene Stars and Polyisobutylene-block-Poly( <i>tert</i> -Butyl Methacrylate) Block Copolymers by Site Transformation of Thiophene End-Capped Polyisobutylene Chain Ends. <i>Macromolecules</i> , 2003, 36:6985-94.	
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	D14	MORI, H, <i>et al.</i> Protection and Polymerization of Functional Monomers. 23. Synthesis of a Well-defined Poly(2-hydroxyethyl methacrylate) by Means of Anionic Living Polymerization of Protected Monomers. <i>Macromol. Chem. Phys.</i> , 1994, 195:3213-24.	
	D15	OHGI, H, <i>et al.</i> Highly Isotactic Poly(vinyl alcohol). 2. Preparation and Characterization of Isotactic Poly(vinyl alcohol). <i>Macromolecules</i> , 1999, 32:2403	
	D16	OKAMURA, S, <i>et al.</i> The Cationic Polymerization of <i>t</i> -Butyl Vinyl Ether at Low Temperature and the Conversion into Polyvinyl Alcohol of Poly- <i>t</i> -butyl Vinyl Ether. <i>Makromol. Chem.</i> , 1962, 53:180-91.	
lee	D17	PASCH, H. Liquid Chromatography at the Critical Point of Adsorption - A New Technique for Polymer Characterization. <i>Macromol. Symp.</i> , 1996, 110:107-20.	
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lc	E1	PASCH, H, <i>et al.</i> Chromatographic Investigations of Molecules in the Critical Range of Liquid Chromatography. 4. Analysis of Poly(styrene- <i>b</i> -methyl methacrylate). <i>Polymer</i> , 1993, 34(19):4100-04.	
	E2	PERNECKER, T, <i>et al.</i> Living Carbocationic Polymerization. 48. Poly(isobutylene- <i>b</i> -methyl vinyl ether). <i>Macromolecules</i> , 1992, 25:1642-47.	
	E3	PINCHUK, L, <i>et al.</i> U.S. Patent Application Publication No. 2002/0107330, Pub. Aug. 8, 2002.	
	E4	PUSKAS, JE, <i>et al.</i> Living Carbocationic Polymerization of Resonance-stabilized Monomers. <i>Prog. Polym. Sci.</i> , 2000, 25:403-52.	
	E5	QUIRK, RP, <i>et al.</i> Anionic Synthesis of Block and Star-Branched Polymers via 1,1-Diphenylethylene-functionalized Macromonomers. <i>Polymer Preprints</i> , 1996, 37(2): 402-03.	
	E6	RADKE, W, <i>et al.</i> Simulation of GPC-distribution Coefficients of Linear and Star-shaped Molecules in Spherical Pores. 2. Comparison of Simulation and Experiment. <i>Polymer</i> , 2003, 44:519-25.	
	E7	REED, PJ, <i>et al.</i> The Preparation and Analysis of High Purity Organolithium Initiators. <i>J. Organomet. Chem.</i> , 1972, 39:1-10.	
	E8	REMBaum, A, <i>et al.</i> Decomposition of Ethyllithium in Tetrahydrofuran. <i>J. Polymer Sci.</i> , 1962, 56:S17-S19.	
	E9	ROOVERS, JEL, <i>et al.</i> Preparation and Characterization of Four-branched Star Polystyrene. <i>Macromolecules</i> , 1972, 5:384-88.	
	E10	RUTH, WG, <i>et al.</i> Silicon-mediated synthesis of new amphiphilic oligomers. <i>J. Polymer Sci., Part A</i> , 1997, 35: 163-70.	
	E11	RUTH, WG, <i>et al.</i> Synthesis of poly( <i>tert</i> -butyldimethylsilyl vinyl ether block copolymers using silyl aldol polymerization. <i>Polymer Preprints</i> , 1993, 34(2): 584-5.	
	E12	SATOH, K, <i>et al.</i> Direct Synthesis of Amphiphilic Random and Block Copolymers of <i>p</i> -hydroxystyrene and <i>p</i> -methoxystyrene via Living Cationic Polymerization with BF <sub>3</sub> OEt <sub>2</sub> /ROH Systems. <i>Macromolecules</i> , 2000, 33(16):5830-35.	
	E13	SATOH, K, <i>et al.</i> Direct Living Cationic Polymerization of <i>p</i> -hydroxystyrene with Boron Trifluoride Etherate in the Presence of Water. <i>Macromolecules</i> , 2000, 33(15):5405-10.	
	E14	SCHLAAD, H, <i>et al.</i> Kinetic Studies on the Capping Reaction of Living Polyisobutylene with 1,1-diphenylethylene. 1. Effect of Temperature and Comparison to the Model Compound 2-chloro-2,4,4-trimethylpentane. <i>Macromolecules</i> , 1998, 31:8058-62.	
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	E16	SHIBASAKI, Y., <i>et al.</i> Reduction of the Cationic Growing Center of Polyisobutylene by Activated Magnesium. Block Copolymerization of Isobutylene with <i>tert</i> -butyl Methacrylate. <i>Macromol. Chem. Phys.</i> , 1998, 199(11):2619-23.	
	E17	SIPOS, L, <i>et al.</i> Synthesis of Poly(L-lactide)- <i>block</i> -polyisobutylene- <i>block</i> -poly(L-lactide), a New Biodegradable Thermoplastic Elastomer. <i>Macromol. Rapid Commun.</i> , 1995, 16(12):935-40.	
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lc	E20	ZHOU, Y, <i>et al.</i> Synthesis of poly(isobutylene- <i>b</i> - <i>tert</i> -butyl vinyl ether) and poly(isobutylene- <i>b</i> - <i>tert</i> -butyldimethylsilyl vinyl ether) diblock copolymers. <i>Polymer Preprints</i> , 2003, 44(2): 661-2.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>L. Choi</i>	Date Considered	10/26/05
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